

Fig. 1

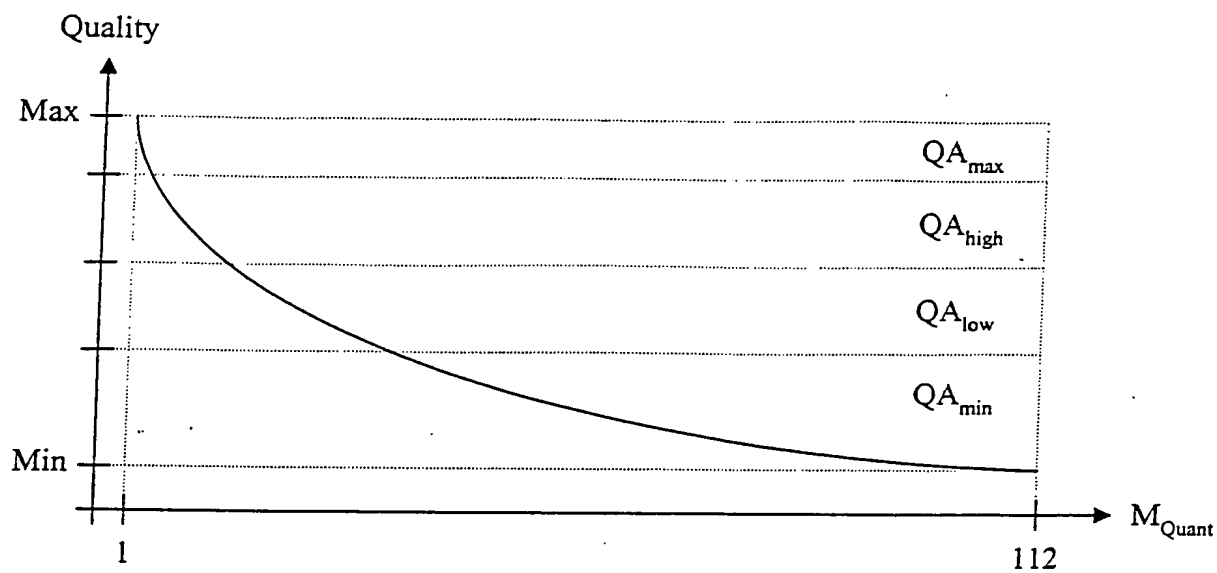


Fig. 2

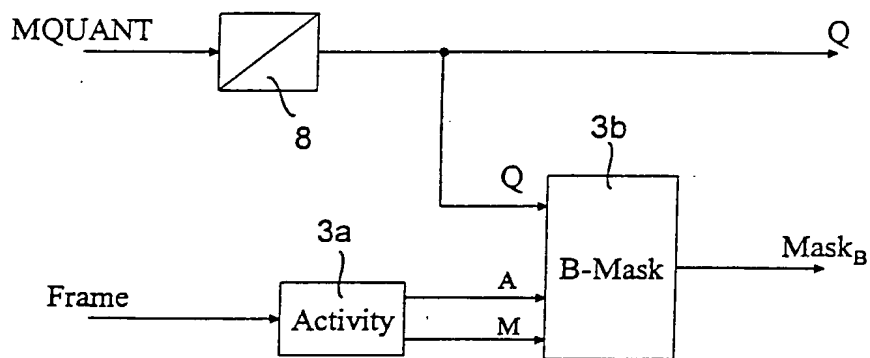


Fig. 3

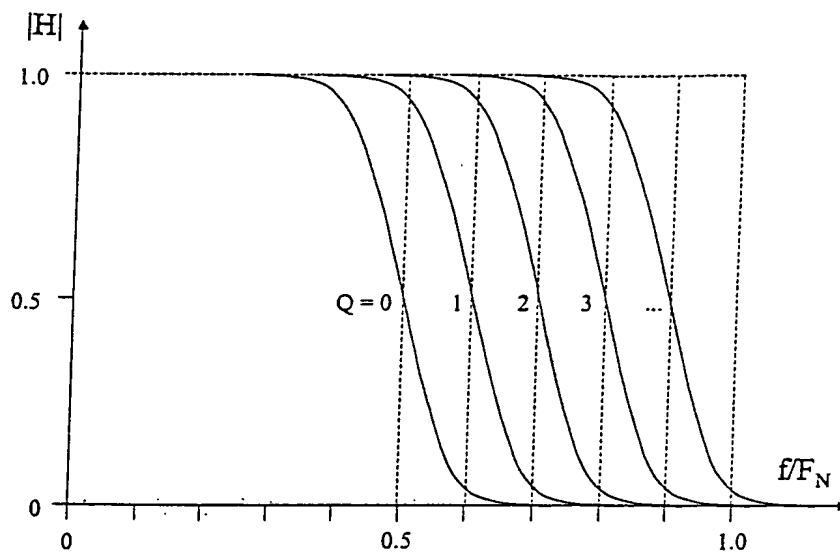


Fig. 4

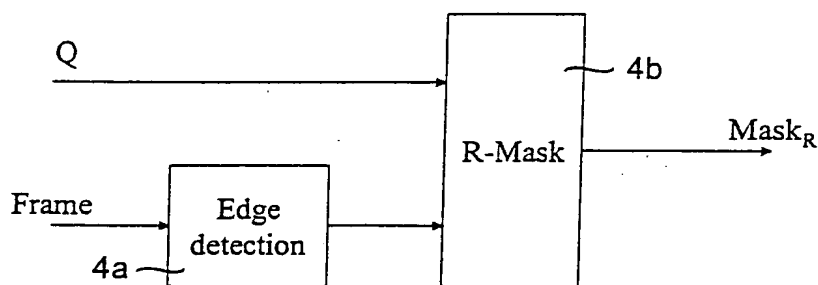


Fig. 5

for  $QA_{\min}$ ,  $QA_{\text{low}}$  and  $QA_{\text{high}}$ 

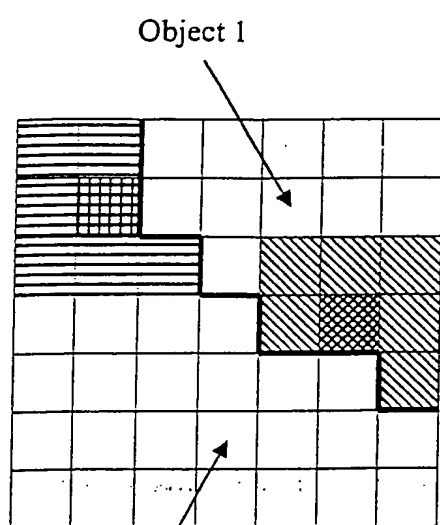
$$\text{Filter} = \begin{array}{|c|c|c|} \hline 1 & 2 & 1 \\ \hline 2 & W & 2 \\ \hline 1 & 2 & 1 \\ \hline \end{array}$$

$$W = \begin{cases} 4 & \text{; for } QA_{\min} \\ 8 & \text{; for } QA_{\text{low}} \\ 16 & \text{; for } QA_{\text{high}} \end{cases}$$

for  $QA_{\max}$ 

$$\text{Filter} = \begin{array}{|c|c|c|} \hline 0 & 0 & 0 \\ \hline 0 & 1 & 0 \\ \hline 0 & 0 & 0 \\ \hline \end{array}$$

Fig. 6



Object 2



Pixels contributing to the filtering of



F =

$f_{-1,-1}$	$f_{0,-1}$	$f_{1,-1}$
$f_{-1,0}$	$f_{0,0}$	$f_{1,0}$
$f_{-1,1}$	$f_{0,1}$	$f_{1,1}$

$$P^{new}[p][l] = \frac{\sum_{j=-1}^1 \sum_{i=-1}^1 P[p+i][l+j] \cdot f[i][j] \cdot \delta_R}{\sum_{j=-1}^1 \sum_{i=-1}^1 f[i][j] \cdot \delta_R}$$

with :  $\delta_R = \begin{cases} 1 & \text{if } P[p+i][l+j] \text{ and } P[p][l] \text{ in same region} \\ 0 & \text{otherwise} \end{cases}$

Fig. 7

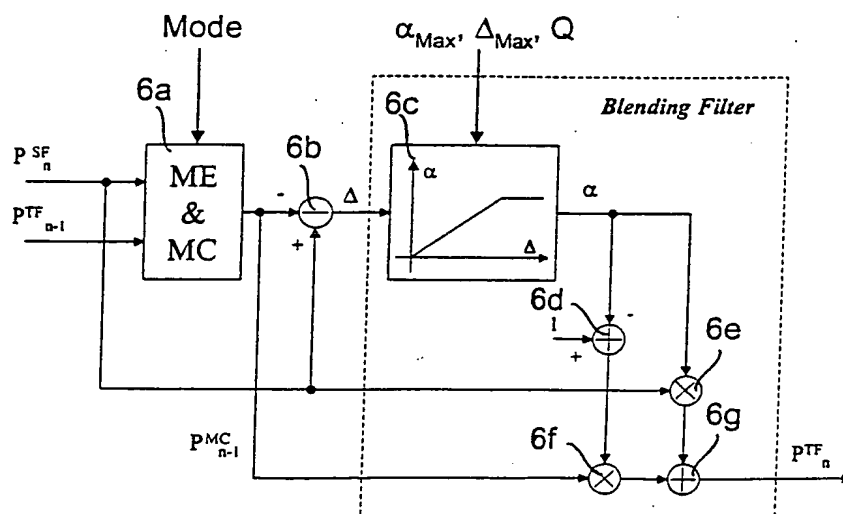


Fig. 8

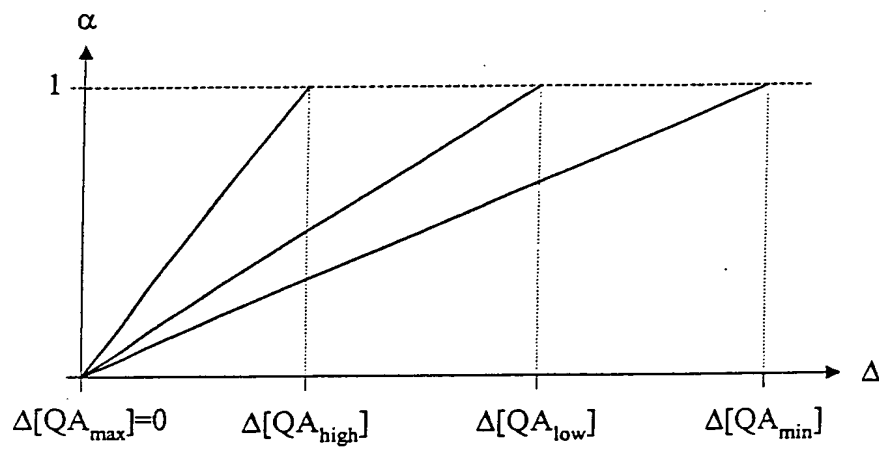


Fig. 9

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